

## WHAT IS CLAIMED IS:

1. An image processing device for generating a 3-D model image of a target object included in an input image, comprising:

a face image input means for inputting a face image;

a 3-D model input means for inputting one or a plurality of 3-D models for each of a plurality of parts;

a 3-D model selection means for selecting a 3-D model for an arbitrary part of the plurality of parts based on an instruction input by an operator;

a face image mapping means for mapping the face image input via the face image input means to the 3-D model selected by the 3-D model selection means and for displaying the mapped 3-D model; and

an image generation means for generating a 3-D still image using the 3-D model selected by the 3-D model selection means and the face image input by the face image input means.

2. An image processing device according to claim 1, wherein the 3-D model has information on a motion on a time series of one or all of the plurality of parts; and

3. An image processing device according to claim 1, wherein the plurality of parts include a part corresponding to a trunk, a part corresponding to a face, and a part corresponding to a head.

5. An image processing device according to claim 4, wherein when a first 3-D model of a first part and a second 3-D model of a second part corresponding to the first part are selected, the 3-D model selection means stores a combination of the first and second parts and the first and second 3-D models; and when an arbitrary 3-D model of the first part is changed to the first 3-D model, the 3-D model selection means changes a 3-D model of the second



of the part corresponding to a face selected via the face model selection means.

8. An image processing device according to claim 1,  
further comprising:

a face image categorization means for categorizing a face image input via the face image input means; and

a head model selection means for automatically selecting a 3-D model of a part corresponding to a head based on a result of the categorization by the face image categorization means,

wherein the face image mapping means maps the face image input via the face image input means to the 3-D model of the part corresponding to a head selected via the head model selection means.

9. An image processing method for generating a 3-D model image of a target object included in an input image, comprising the steps of:

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inputting a face image via a face image input
means;
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inputting one or a plurality of 3-D models for each of a plurality of parts via a 3-D model input means;

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generating a 3-D still or moving image using the selected 3-D model and the input face image.

generating a 3-D still or moving image using the

11. A computer-readable recording medium storing an image processing program for generating a 3-D model image of a target object included in an input image, the program comprising the steps of:

inputting one or a plurality of 3-D models for each  
of a plurality of parts via a 3-D model input means;

selecting a 3-D model for an arbitrary part of the plurality of parts based on an instruction input by an operator;

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        mapping the face image input to the selected 3-D
model and displaying the mapped 3-D model on a display
means; and

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generating a 3-D still or moving image using the selected 3-D model and the input face image.

12. A computer-readable recording medium storing an image processing program for generating a 3-D model image of a target object included in an input image, the program comprising the steps of:

inputting a face image via a face image input

categorizing the input face image;

inputting one or a plurality of 3-D models for each of a plurality of parts via a 3-D model input means;

automatically selecting a 3-D model of an input arbitrary part based on a result of the categorization by the face image categorization step;

mapping the face image input to the automatically selected 3-D model and displaying the mapped 3-D model on a display means; and

generating a 3-D still or moving image using the automatically selected 3-D model and the input face image.

# Introduction